

ภาคผนวกที่ 4

- ใบรับรองห้องปฏิบัติการ ของมหาวิทยาลัยสวนดุสิต ศูนย์สิ่งแวดลอม
- รายงานผลการตรวจวัดและวิเคราะห์คุณภาพน้ำ

ใบรับรองห้องปฏิบัติการ ของมหาวิทยาลัยสวนดุสิต ศูนย์สิ่งแวดลอม



ใบรับรองเลขที่ 21T033/1246

ใบรับรองห้องปฏิบัติการ

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

ออกใบรับรองฉบับนี้ให้

มหาวิทยาลัยสวนดุสิต

ศูนย์สิ่งแวดล้อม

มีห้องปฏิบัติการตั้งอยู่เลขที่

๒๒๘-๒๒๘/๑-๓ ถนนสีรินธร แขวงบางพลัด เขตบางพลัด กรุงเทพมหานคร

ได้รับการรับรองความสามารถห้องปฏิบัติการทดสอบ

ตามมาตรฐานเลขที่ มอก. 17025-2561 (ISO/IEC 17025 : 2017)

ข้อกำหนดทั่วไปว่าด้วยความสามารถห้องปฏิบัติการทดสอบและสอบเทียบ

หมายเลขการรับรองที่ ทดสอบ ๐๒๘๐

โดยมีสาขาการรับรองตามรายละเอียดแนบท้ายใบรับรอง

ตั้งแต่ วันที่ ๘ มีนาคม พ.ศ. ๒๕๖๔

ถึง วันที่ ๗ มีนาคม พ.ศ. ๒๕๖๗

ออกให้ ณ วันที่ ๑๙ มี.ค. ๒๕๖๔

กมล

(นางกมลวรรณ จำเลิศวัฒน์)

รองเลขาธิการ ปฏิบัติราชการแทน

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม




รายละเอียดแนบท้ายใบรับรองห้องปฏิบัติการทดสอบ
ใบรับรองเลขที่ 21T033/1246

ชื่อห้องปฏิบัติการ ห้องปฏิบัติการทดสอบ ศูนย์สิ่งแวดล้อม มหาวิทยาลัยสวนดุสิต
ที่อยู่ เลขที่ 228-228/1-3 ถนนสีรินธร แขวงบางพลัด เขตบางพลัด กรุงเทพมหานคร
หมายเลขการรับรองที่ ทดสอบ 0280
สถานภาพห้องปฏิบัติการ ☒ ถาวร ☐ นอกสถานที่ ☐ชั่วคราว ☐เคลื่อนที่

สาขาทดสอบ	รายการทดสอบ	วิธีทดสอบ
สาขาสิ่งแวดล้อม น้ำและน้ำเสีย (water and wastewater)	- pH 4.0 to 10.0 - Total solids (TS) 20 mg/l to 1 000 mg/l - Total suspended solids (TSS) 20 mg/l to 1 000 mg/l - Total dissolved solids (TDS) 20 mg/l to 1 000 mg/l - Chemical oxygen demand (COD) 40 mg/l to 400 mg/l	- Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 rd Edition 2017, part 4500-H ⁺ B - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 rd Edition 2017, part 2540 B - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 rd Edition 2017, part 2540 D - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 rd Edition 2017, part 2540 C - Standard Methods for The Examination of Water and Wastewater, APHA, AWWA, WEF 23 rd Edition 2017, part 5220 C

ออกให้ ณ วันที่ **๑๙ มี.ค. ๒๕๖๔**


 (นางกมลวรรณ ฉ่ำเลิศวัฒน์)
 รองเลขาธิการ ปฏิบัติราชการแทน
 เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

รายงานผลการตรวจวัดและวิเคราะห์คุณภาพน้ำ

เดือนกรกฎาคม 2565



THE ENVIRONMENTAL CENTER SUAN DUSIT UNIVERSITY
228-228/1-3 Sirinthorn Rd, Bangplad, Bangkok 10700
Tel. 02-423-9407-10 Fax. 02-423-9409

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : July 6, 2022

Analytical date : July 6 - 8, 2022

Sampling time : -

Sampling report No : RT650700537

Laboratory No : SDW/65-1202

Sampling type : wastewater

Sampling date : July 6, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	Not found	≠ 5,000
2. Fecal Coliform Bacteria	MPN/ 100 ml	AWWA, 2017 (9221E)		Not found	≠ 1,000

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

Miss Pantipa Kitpakdeekul

Head of academic team

July 8, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1192

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.3 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		46	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		220	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		37	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7, B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

Miss Pantipa Kitpakdeekul

Head of academic team

July 18, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1193

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.9 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		12	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		308	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

July 18, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1194

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.8 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		10	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		394	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1195

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.9 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		26	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		252	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		24	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Head of academic team

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1196

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.4 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		4	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		282	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		5	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1197

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	6.6 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		62	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		300	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		76	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

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Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1198

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		72	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		248	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		27	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1199

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.4 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		91	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		372	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		9	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Analysis Report

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1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1200

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	8.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		24	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		248	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		9	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,
B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

Miss Pantipa Kitpakdeekul

Head of academic team

July 18, 2022

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Tel. 02-423-9407-10 Fax. 02-423-9409



NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Receive date : July 6, 2022

Analytical date : July 6-18, 2022

Sampling time : -

Sampling report No : RT650700536

Laboratory No : SDW/65-1201

Sampling type : Effluent

Sampling date : July 4, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is orange color, turbid and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		156	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		250	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		41	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

July 18, 2022

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เดือนสิงหาคม 2565



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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : August 3, 2022

Analytical date : August 3-11, 2022

Sampling time : -

Sampling report No : RT650800616

Laboratory No : SDW/65-1312

Sampling type : wastewater

Sampling date : August 2, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	170×10^2	$\neq 5,000$
2. Fecal Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221E)		27×10^2	$\neq 1,000$

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

Miss Pantipa Kitpakdeekul

Head of academic team

August 11, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1314

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.6 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		37	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		194	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		76	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1315

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		27	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		272	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		14	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1316

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		25	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		294	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		15	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1317

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.9 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		14	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		234	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		15	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Receive date : August 3, 2022

Analytical date : August 3-16, 2022

Sampling time : -

Sampling report No : RT650800618

Laboratory No : SDW/65-1318

Sampling type : Effluent

Sampling date : August 2, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.9 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		77	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		224	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		42	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1319

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	6.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		191	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		368	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		243	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.03	≠ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1320

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		50	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		270	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		40	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Receive date : August 3, 2022

Analytical date : August 3-16, 2022

Sampling time : -

Sampling report No : RT650800618

Laboratory No : SDW/65-1321

Sampling type : Effluent

Sampling date : August 2, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.9 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		73	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		268	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		37	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.04	≠ 20

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August 16, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650800618

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1322

1390/19 ถนนเพชรเกษม (หัวขจรไต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Sampling type : Effluent

Receive date : August 3, 2022

Sampling date : August 2, 2022

Analytical date : August 3-16, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		195	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		200	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		45	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Head of academic team

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Receive date : August 3, 2022

Analytical date : August 3-16, 2022

Sampling time : -

Sampling report No : RT650800618

Laboratory No : SDW/65-1323

Sampling type : Effluent

Sampling date : August 2, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		280	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		247	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		43	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,
B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

Miss Pantipa Kitpakdeekul

Head of academic team

August 16, 2022

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เดือนกันยายน 2565



THE ENVIRONMENTAL CENTER SUAN DUSIT UNIVERSITY

228-228/1-3 Sirinthorn Rd, Bangplad, Bangkok 10700

Tel. 02-423-9407-10 Fax. 02-423-9409

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : September 7, 2022

Analytical date : September 7 - 10, 2022

Sampling time : -

Sampling report No : RT650900700

Laboratory No : SDW/65-1500

Sampling type : wastewater

Sampling date : September 5, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	Not found	≧ 5,000
2. Fecal Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221E)		Not found	≧ 1,000

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 10, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1502

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.2 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		34	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		230	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		59	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

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B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1503

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.7 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		6	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		270	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		2	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,
B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Receive date : September 7, 2022

Analytical date : September 7-13, 2022

Sampling time : -

Sampling report No : RT650900702

Laboratory No : SDW/65-1504

Sampling type : Effluent

Sampling date : September 5, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.5 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		16	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		460	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"
Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,
B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1505

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		57	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		238	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		44	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

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B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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Tel. 02-423-9407-10 Fax. 02-423-9409



Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1506

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is orange color, turbid and sediment.	7.2 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		56	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		240	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		26	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1507

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	6.9 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		68	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		322	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		63	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,

B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)

(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1508

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.6 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		15	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		206	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		9	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1509

1390/19 ถนนเพชรเกษม (หัวขจรไทร) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		44	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		392	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		27	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1510

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		69	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		276	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		11	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT650900702

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1511

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Sampling type : Effluent

Receive date : September 7, 2022

Sampling date : September 5, 2022

Analytical date : September 7-13, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is orange color, turbid and sediment.	6.9 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		279	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		388	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		129	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

September 13, 2022

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เดือนตุลาคม 2565



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Tel. 02-423-9407-10 Fax. 02-423-9409

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : October 12, 2022

Analytical date : October 12 - 31, 2022

Sampling time : -

Sampling report No : RT651000823

Laboratory No : SDW/65-1708

Sampling type : wastewater

Sampling date : October 10, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	26	≠ 5,000
2. Fecal Coliform Bacteria	MPN/ 100 ml	AWWA, 2017 (9221E)		Not found	≠ 1,000

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

(Miss Pantipa Kitpakdeekul)

Head of academic team

October 31, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1710

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		27	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		178	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		9	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.60	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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Tel. 02-423-9407-10 Fax. 02-423-9409



Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1711

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		36	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		210	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		2.80	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

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Head of academic team

November 3, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1712

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.4 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		11	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		238	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		5	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1713

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		69	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		208	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		7	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Receive date : October 12, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling time : -

Sampling report No : RT651000825

Laboratory No : SDW/65-1714

Sampling type : Effluent

Sampling date : October 10, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		74	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		204	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		5	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1715

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	6.6 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		92	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		294	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		27	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		3.80	≠ 20

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Head of academic team

November 3, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1716

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		28	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		164	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		4	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1717

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	8.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		38	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		494	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		5	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		2.00	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1718

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.6 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		13	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		340	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		7	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≠ 20

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Head of academic team

November 3, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651000825

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1719

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Sampling type : Effluent

Receive date : October 12, 2022

Sampling date : October 10, 2022

Analytical date : October 12, 2022 – November 3, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color, turbid and sediment.	7.2 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		158	≠ 50
3. TDS	mg/l	AWWA,2017 (2540C)		270	≠ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		23	≠ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.80	≠ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

November 3, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1901

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -

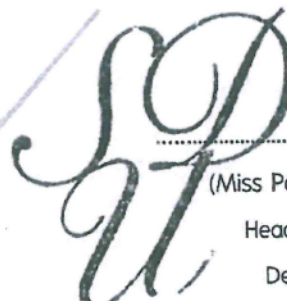
Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		24	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		226	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		51	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.80	≥ 20

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Head of academic team
December 2, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1902

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -


Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.8 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		5	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		364	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		12	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≥ 20

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(Miss Pantipa Kitpakdeekul)
Head of academic team
December 2, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Receive date : November 8, 2022

Analytical date : November 8, 2022 - December 2, 2022

Sampling time : -

Sampling report No : RT651100924

Laboratory No : SDW/65-1903

Sampling type : Effluent

Sampling date : November 8, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development


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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		158	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		248	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		35	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.20	≥ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

Standard from Notification of the Ministry of Natural Resources and Environment : Building Effluents Standards dated November 7,

B.E. 2548 (2005) published in the Royal Government Gazette, Vol. 122 Part 125 D, dated December 29, B.E. 2548 (2005)


(Miss Pantipa Kitpakdeekul)
Head of academic team
December 2, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1904

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -


Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	8.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		20	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		272	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		13	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)
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December 2, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1905

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H* B)	Water sample is yellow color and sediment.	8.1 at 25°C	5 – 9
2. SS	mg/l	AWWA,2017 (2540D)		37	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		306	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		48	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.20	≥ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Receive date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling time : -

Sampling report No : RT651100924

Laboratory No : SDW/65-1906

Sampling type : Effluent

Sampling date : November 8, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.1 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		51	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		300	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		79	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.80	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 2, 2022

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TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายาณา (THE PALAYANA)

Laboratory No : SDW/65-1907

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is gray color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		50	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		314	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		79	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≥ 20

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Head of academic team

December 2, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1908

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -


Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is gray color and sediment.	8.3 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		53	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		444	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		15	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≥ 20

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Head of academic team
December 2, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1909

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is gray color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		70	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		464	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		13	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.20	≧ 20

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Head of academic team

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TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100924

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1910

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Sampling type : Effluent

Receive date : November 8, 2022

Sampling date : November 8, 2022

Analytical date : November 8, 2022 – December 2, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H* B)	Water sample is black color, turbid and sediment.	7.6 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		208	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		265	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		177	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		2.00	≧ 20

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Head of academic team

December 2, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651100923

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-1899

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Ice

Sampling type : Drinking water

Receive date : November 8, 2022

Sampling date : November 3, 2022

Analytical date : November 8-14, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	7	Not found
2. E.Coli	MPN/100 ml	AWWA, 2017 (9221F)		Not found	Not found

Remark : Standard from Notification of the Ministry of Public Health No. 78 (1984) Re: Ice

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November 14, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : November 8, 2022

Analytical date : November 8-14, 2022

Sampling time : -

Sampling report No : RT651100923

Laboratory No : SDW/65-1900

Sampling type : wastewater

Sampling date : November 3, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	14	≥ 5,000
2. Fecal Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221E)		Not found	≥ 1,000

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

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Head of academic team

November 14, 2022

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Reuse water from the tap

Receive date : December 13, 2022

Analytical date : December 13-29, 2022

Sampling time : -

Sampling report No : RT651201029

Laboratory No : SDW/65-2316

Sampling type : wastewater

Sampling date : December 6, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. Total Coliform Bacteria	MPN/100 ml	AWWA, 2017 (9221C)	Water sample is yellow, colorless and sediment.	17	≥ 5,000
2. Fecal Coliform Bacteria	MPN/ 100 ml	AWWA, 2017 (9221E)		Not found	≥ 1,000

Remark : Standard from Announcement of the National Environment Board No. 8 (B.E. 2537) issued under the Enhancement and Conservation of the National Environmental Quality Act, B.E. 2535 (1992), titled Water quality standards in surface water sources Published in the Government Gazette, Volume 111, Part 16 Ngor, dated February 24, 1994.

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Analysis Report

Customer name : 99 Riel Estate Development

Address : เดอะ ปาลายานา (THE PALAYANA)

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.1)

Receive date : December 13, 2022

Analytical date : December 13-29, 2022

Sampling time : -

Sampling report No : RT651201030

Laboratory No : SDW/65-2317

Sampling type : Effluent

Sampling date : December 6, 2022

Sampling method : GRAB

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is grey color and sediment.	7.6 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		70	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		224	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		12	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025
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Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2318

1390/19 ถนนเพชรเกษม (หัวทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.2)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is grey color and sediment.	7.6 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		30	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		274	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		1.20	≥ 20

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December 29, 2022

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TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2319

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.3)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is grey color and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		23	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		416	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		11	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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Tel. 02-423-9407-10 Fax. 02-423-9409



NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2320

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.4)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H* B)	Water sample is yellow color and sediment.	6.3 at 25°C	5 - 9
2. SS*	mg/l	AWWA,2017 (2540D)		2	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		264	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		4	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2321

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.5)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.7 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		22	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		318	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		8	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2322

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.6)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H* B)	Water sample is grey color and sediment.	6.4 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		84	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		320	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		28	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		3.00	≧ 20

Remark : * Test marked " Not TISI Accredited " in this Report / Certificate are not included in the TISI Accreditation Schedule for our Laboratory"

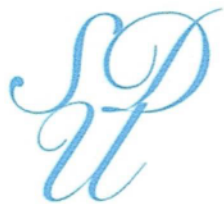
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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025

TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2323

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.7)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is yellow color and sediment.	7.0 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		100	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		320	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		13	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		5.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2324

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.8)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is orange color, turbid and sediment.	6.4 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		678	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		420	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		47	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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(Miss Pantipa Kitpakdeekul)

Head of academic team

December 29, 2022

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2325

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.9)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

Page : 1/1

Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is grey color and sediment.	7.8 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		32	≥ 50
3. TDS	mg/l	AWWA,2017 (2540C)		394	≥ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		14	≥ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.80	≥ 20

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NSC-TISI-TIS 17025
TESTING 0280

Analysis Report

Customer name : 99 Riel Estate Development

Sampling report No : RT651201030

Address : เดอะ ปาลายานา (THE PALAYANA)

Laboratory No : SDW/65-2326

1390/19 ถนนเพชรเกษม (ห้วยทรายใต้) ตำบลชะอำ อำเภอชะอำ จังหวัดเพชรบุรี

Sampling source : Pond water after treatment (Pool no.10)

Sampling type : Effluent

Receive date : December 13, 2022

Sampling date : December 6, 2022

Analytical date : December 13-29, 2022

Sampling method : GRAB

Sampling time : -

Sampling by : 99 Riel Estate Development

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Parameters	Unit	Analysis method	Characteristic	Results	Standard
1. pH	-	AWWA,2017 (4500-H ⁺ B)	Water sample is orange color and sediment.	7.5 at 25°C	5 - 9
2. SS	mg/l	AWWA,2017 (2540D)		126	≧ 50
3. TDS	mg/l	AWWA,2017 (2540C)		242	≧ 500
4. BOD ₅ *	mg/l	AWWA,2017 (5210B)		13	≧ 40
5. Oil&Grease*	mg/l	AWWA,2017 (5520D)		0.00	≧ 20

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